

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (4/98)  
Approved for use through 09/30/2000 OMB 0651-0032  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. 520.39598X00

First Inventor or Application Identifier Aki TOMITA, ET AL.

Title See 1 in Addendum

Express Mail Label No.

**APPLICATION ELEMENTS**  
See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 25] 1  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 11] 1
4. Oath or Declaration [Total Pages 4] 1
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☒ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement ☒ Power of Attorney  
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement filed in prior application  
(PTO/SB/09-12) ☐ Status still proper and desired
14. ☒ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☒ Other: List and Copies of Prior Art References...

\* NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. \_\_\_\_\_ / \_\_\_\_\_  
Prior application information: Examiner \_\_\_\_\_ Group / Art Unit \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label: 020457 or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	

Name (Print/Type)	Carl I. Brundage	Registration No. (Attorney/Agent)	29,621
Signature		Date	03/19/01

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

09/810548  
03/19/01

- | Variable            | Mean  | SD   | Min  | Max   | Skewness | Kurtosis | Normality |
|---------------------|-------|------|------|-------|----------|----------|-----------|
| Age                 | 35.2  | 12.5 | 18   | 65    | 0.15     | 3.2      | 0.98      |
| Gender              | 0.52  | 0.50 | 0    | 1     | -0.05    | 3.0      | 0.99      |
| Marital Status      | 0.68  | 0.48 | 0    | 1     | 0.10     | 3.1      | 0.99      |
| Education           | 12.5  | 2.5  | 8    | 16    | 0.20     | 3.3      | 0.98      |
| Income              | 15000 | 8000 | 5000 | 35000 | 0.30     | 3.4      | 0.97      |
| Occupation          | 1.2   | 0.8  | 0    | 2     | 0.10     | 3.1      | 0.99      |
| Health Status       | 0.75  | 0.43 | 0    | 1     | 0.05     | 3.0      | 0.99      |
| Stress Level        | 2.5   | 1.5  | 1    | 5     | 0.25     | 3.5      | 0.97      |
| Life Satisfaction   | 3.8   | 1.2  | 1    | 5     | -0.10    | 3.0      | 0.99      |
| Resilience          | 4.2   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |
| Optimism            | 4.5   | 1.1  | 1    | 5     | -0.08    | 3.0      | 0.99      |
| Emotional Stability | 4.0   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |
| Self-Esteem         | 4.3   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |
| Life Satisfaction   | 3.8   | 1.2  | 1    | 5     | -0.10    | 3.0      | 0.99      |
| Resilience          | 4.2   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |
| Optimism            | 4.5   | 1.1  | 1    | 5     | -0.08    | 3.0      | 0.99      |
| Emotional Stability | 4.0   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |
| Self-Esteem         | 4.3   | 1.0  | 1    | 5     | -0.05    | 3.0      | 0.99      |

<h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">for FY 2000</h3> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 CFR §§ 1.27 and 1.28.</p>	<p><b>Complete if Known</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Application Number</td><td></td></tr> <tr><td>Filing Date</td><td>March 19, 2001</td></tr> <tr><td>First Named Inventor</td><td>Aki TOMITA, ET AL.</td></tr> <tr><td>Examiner Name</td><td></td></tr> <tr><td>Group / Art Unit</td><td></td></tr> <tr><td>Attorney Docket No.</td><td>520.39598X00</td></tr> </table>	Application Number		Filing Date	March 19, 2001	First Named Inventor	Aki TOMITA, ET AL.	Examiner Name		Group / Art Unit		Attorney Docket No.	520.39598X00
Application Number													
Filing Date	March 19, 2001												
First Named Inventor	Aki TOMITA, ET AL.												
Examiner Name													
Group / Art Unit													
Attorney Docket No.	520.39598X00												
<b>TOTAL AMOUNT OF PAYMENT</b> (\$990.00)													

<p><b>METHOD OF PAYMENT (check one)</b></p> <p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: 01-2135</p> <p>Deposit Account Name: Antonelli, Terry, Stout &amp; Kraus, LLP</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:  <input type="checkbox"/> Check    <input type="checkbox"/> Money Order    <input checked="" type="checkbox"/> Other</p> <p style="text-align: center;"><b>FEE CALCULATION</b></p> <p><b>1. BASIC FILING FEE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Code</th> <th>Small Entity Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201 345 Utility filing fee</td><td>710.00</td></tr> <tr><td>106</td><td>310</td><td>206 155 Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207 240 Plant filing fee</td><td></td></tr> <tr><td>108</td><td>690</td><td>208 345 Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214 75 Provisional filing fee</td><td></td></tr> <tr> <td colspan="3" style="text-align: right;"><b>SUBTOTAL (1)</b></td> <td><b>(\$ 710.00)</b></td> </tr> </tbody> </table> <p><b>2. EXTRA CLAIM FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>-20** = 0</td> <td>18</td> <td>0</td> </tr> <tr> <td>6</td> <td>-3** = 3</td> <td>80</td> <td>240</td> </tr> <tr> <td colspan="3">Multiple Dependent</td> <td>0</td> </tr> </tbody> </table> <p><small>**or number previously paid, if greater, For Reissues, see below</small></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Code</th> <th>Small Entity Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203 9 Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202 39 Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204 130 Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209 39 ** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210 9 ** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="3" style="text-align: right;"><b>SUBTOTAL (2)</b></td> <td><b>(\$ 240.00)</b></td> </tr> </tbody> </table>	Large Entity Code	Small Entity Code	Fee Description	Fee Paid	101	690	201 345 Utility filing fee	710.00	106	310	206 155 Design filing fee		107	480	207 240 Plant filing fee		108	690	208 345 Reissue filing fee		114	150	214 75 Provisional filing fee		<b>SUBTOTAL (1)</b>			<b>(\$ 710.00)</b>	Total Claims	Extra Claims	Fee from below	Fee Paid	6	-20** = 0	18	0	6	-3** = 3	80	240	Multiple Dependent			0	Large Entity Code	Small Entity Code	Fee Description	Fee Paid	103	18	203 9 Claims in excess of 20		102	78	202 39 Independent claims in excess of 3		104	260	204 130 Multiple dependent claim, if not paid		109	78	209 39 ** Reissue independent claims over original patent		110	18	210 9 ** Reissue claims in excess of 20 and over original patent		<b>SUBTOTAL (2)</b>			<b>(\$ 240.00)</b>	<p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Code</th> <th>Small Entity Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205 65 Surcharge - late filing fee or oath</td><td>0.00</td></tr> <tr><td>127</td><td>50</td><td>227 25 Surcharge - late provisional filing fee or cover sheet</td><td>0.00</td></tr> <tr><td>139</td><td>130</td><td>139 130 Non-English specification</td><td>0.00</td></tr> <tr><td>147</td><td>2,520</td><td>147 2,520 For filing a request for reexamination</td><td>0.00</td></tr> <tr><td>112</td><td>920*</td><td>112 920* Requesting publication of SIR prior to Examiner action</td><td>0.00</td></tr> <tr><td>113</td><td>1,840*</td><td>113 1,840* Requesting publication of SIR after Examiner action</td><td>0.00</td></tr> <tr><td>115</td><td>110</td><td>215 55 Extension for reply within first month</td><td>0.00</td></tr> <tr><td>116</td><td>380</td><td>216 190 Extension for reply within second month</td><td>0.00</td></tr> <tr><td>117</td><td>870</td><td>217 435 Extension for reply within third month</td><td>0.00</td></tr> <tr><td>118</td><td>1,360</td><td>218 680 Extension for reply within fourth month</td><td>0.00</td></tr> <tr><td>128</td><td>1,850</td><td>228 925 Extension for reply within fifth month</td><td>0.00</td></tr> <tr><td>119</td><td>300</td><td>219 150 Notice of Appeal</td><td>0.00</td></tr> <tr><td>120</td><td>300</td><td>220 150 Filing a brief in support of an appeal</td><td>0.00</td></tr> <tr><td>121</td><td>260</td><td>221 130 Request for oral hearing</td><td>0.00</td></tr> <tr><td>138</td><td>1,510</td><td>138 1,510 Petition to institute a public use proceeding</td><td>0.00</td></tr> <tr><td>140</td><td>110</td><td>240 55 Petition to revive - unavoidable</td><td>0.00</td></tr> <tr><td>141</td><td>1,210</td><td>241 605 Petition to revive - unintentional</td><td>0.00</td></tr> <tr><td>142</td><td>1,210</td><td>242 605 Utility issue fee (or reissue)</td><td>0.00</td></tr> <tr><td>143</td><td>430</td><td>243 215 Design issue fee</td><td>0.00</td></tr> <tr><td>144</td><td>580</td><td>244 290 Plant issue fee</td><td>0.00</td></tr> <tr><td>122</td><td>130</td><td>122 130 Petitions to the Commissioner</td><td>0.00</td></tr> <tr><td>123</td><td>50</td><td>123 50 Petitions related to provisional applications</td><td>0.00</td></tr> <tr><td>126</td><td>240</td><td>126 240 Submission of Information Disclosure Stmt</td><td>0.00</td></tr> <tr><td>581</td><td>40</td><td>581 40 Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>146</td><td>690</td><td>246 345 Filing a submission after final rejection (37 CFR § 1.129(a))</td><td>0.00</td></tr> <tr><td>149</td><td>690</td><td>249 345 For each additional invention to be examined (37 CFR § 1.129(b))</td><td>0.00</td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td>0.00</td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td>0.00</td></tr> <tr> <td colspan="3" style="text-align: right;"><b>SUBTOTAL (3)</b></td> <td><b>(\$ 40.00)</b></td> </tr> </tbody> </table> <p><small>* Reduced by Basic Filing Fee Paid</small></p>	Large Entity Code	Small Entity Code	Fee Description	Fee Paid	105	130	205 65 Surcharge - late filing fee or oath	0.00	127	50	227 25 Surcharge - late provisional filing fee or cover sheet	0.00	139	130	139 130 Non-English specification	0.00	147	2,520	147 2,520 For filing a request for reexamination	0.00	112	920*	112 920* Requesting publication of SIR prior to Examiner action	0.00	113	1,840*	113 1,840* Requesting publication of SIR after Examiner action	0.00	115	110	215 55 Extension for reply within first month	0.00	116	380	216 190 Extension for reply within second month	0.00	117	870	217 435 Extension for reply within third month	0.00	118	1,360	218 680 Extension for reply within fourth month	0.00	128	1,850	228 925 Extension for reply within fifth month	0.00	119	300	219 150 Notice of Appeal	0.00	120	300	220 150 Filing a brief in support of an appeal	0.00	121	260	221 130 Request for oral hearing	0.00	138	1,510	138 1,510 Petition to institute a public use proceeding	0.00	140	110	240 55 Petition to revive - unavoidable	0.00	141	1,210	241 605 Petition to revive - unintentional	0.00	142	1,210	242 605 Utility issue fee (or reissue)	0.00	143	430	243 215 Design issue fee	0.00	144	580	244 290 Plant issue fee	0.00	122	130	122 130 Petitions to the Commissioner	0.00	123	50	123 50 Petitions related to provisional applications	0.00	126	240	126 240 Submission of Information Disclosure Stmt	0.00	581	40	581 40 Recording each patent assignment per property (times number of properties)	40.00	146	690	246 345 Filing a submission after final rejection (37 CFR § 1.129(a))	0.00	149	690	249 345 For each additional invention to be examined (37 CFR § 1.129(b))	0.00	Other fee (specify) _____			0.00	Other fee (specify) _____			0.00	<b>SUBTOTAL (3)</b>			<b>(\$ 40.00)</b>
Large Entity Code	Small Entity Code	Fee Description	Fee Paid																																																																																																																																																																																														
101	690	201 345 Utility filing fee	710.00																																																																																																																																																																																														
106	310	206 155 Design filing fee																																																																																																																																																																																															
107	480	207 240 Plant filing fee																																																																																																																																																																																															
108	690	208 345 Reissue filing fee																																																																																																																																																																																															
114	150	214 75 Provisional filing fee																																																																																																																																																																																															
<b>SUBTOTAL (1)</b>			<b>(\$ 710.00)</b>																																																																																																																																																																																														
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																														
6	-20** = 0	18	0																																																																																																																																																																																														
6	-3** = 3	80	240																																																																																																																																																																																														
Multiple Dependent			0																																																																																																																																																																																														
Large Entity Code	Small Entity Code	Fee Description	Fee Paid																																																																																																																																																																																														
103	18	203 9 Claims in excess of 20																																																																																																																																																																																															
102	78	202 39 Independent claims in excess of 3																																																																																																																																																																																															
104	260	204 130 Multiple dependent claim, if not paid																																																																																																																																																																																															
109	78	209 39 ** Reissue independent claims over original patent																																																																																																																																																																																															
110	18	210 9 ** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																															
<b>SUBTOTAL (2)</b>			<b>(\$ 240.00)</b>																																																																																																																																																																																														
Large Entity Code	Small Entity Code	Fee Description	Fee Paid																																																																																																																																																																																														
105	130	205 65 Surcharge - late filing fee or oath	0.00																																																																																																																																																																																														
127	50	227 25 Surcharge - late provisional filing fee or cover sheet	0.00																																																																																																																																																																																														
139	130	139 130 Non-English specification	0.00																																																																																																																																																																																														
147	2,520	147 2,520 For filing a request for reexamination	0.00																																																																																																																																																																																														
112	920*	112 920* Requesting publication of SIR prior to Examiner action	0.00																																																																																																																																																																																														
113	1,840*	113 1,840* Requesting publication of SIR after Examiner action	0.00																																																																																																																																																																																														
115	110	215 55 Extension for reply within first month	0.00																																																																																																																																																																																														
116	380	216 190 Extension for reply within second month	0.00																																																																																																																																																																																														
117	870	217 435 Extension for reply within third month	0.00																																																																																																																																																																																														
118	1,360	218 680 Extension for reply within fourth month	0.00																																																																																																																																																																																														
128	1,850	228 925 Extension for reply within fifth month	0.00																																																																																																																																																																																														
119	300	219 150 Notice of Appeal	0.00																																																																																																																																																																																														
120	300	220 150 Filing a brief in support of an appeal	0.00																																																																																																																																																																																														
121	260	221 130 Request for oral hearing	0.00																																																																																																																																																																																														
138	1,510	138 1,510 Petition to institute a public use proceeding	0.00																																																																																																																																																																																														
140	110	240 55 Petition to revive - unavoidable	0.00																																																																																																																																																																																														
141	1,210	241 605 Petition to revive - unintentional	0.00																																																																																																																																																																																														
142	1,210	242 605 Utility issue fee (or reissue)	0.00																																																																																																																																																																																														
143	430	243 215 Design issue fee	0.00																																																																																																																																																																																														
144	580	244 290 Plant issue fee	0.00																																																																																																																																																																																														
122	130	122 130 Petitions to the Commissioner	0.00																																																																																																																																																																																														
123	50	123 50 Petitions related to provisional applications	0.00																																																																																																																																																																																														
126	240	126 240 Submission of Information Disclosure Stmt	0.00																																																																																																																																																																																														
581	40	581 40 Recording each patent assignment per property (times number of properties)	40.00																																																																																																																																																																																														
146	690	246 345 Filing a submission after final rejection (37 CFR § 1.129(a))	0.00																																																																																																																																																																																														
149	690	249 345 For each additional invention to be examined (37 CFR § 1.129(b))	0.00																																																																																																																																																																																														
Other fee (specify) _____			0.00																																																																																																																																																																																														
Other fee (specify) _____			0.00																																																																																																																																																																																														
<b>SUBTOTAL (3)</b>			<b>(\$ 40.00)</b>																																																																																																																																																																																														

<b>SUBMITTED BY</b>		<b>Complete (if applicable)</b>	
Name (Print/Type)	Registration No. (Attorney/Agent)	Telephone	Date
Carl I. Brundidge	29,621	703-312-6660	3/19/2001
Signature			

**WARNING:**

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231